

#5



1644

1644

## RAW SEQUENCE LISTING

DATE: 02/04/2002

PATENT APPLICATION: US/09/583,200B

TIME: 11:38:56

Input Set : A:\-157-2.app

Output Set: N:\CRF3\02042002\1583200B.raw

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TECH CENTER 1600/2900

ENTERED

P.S

4 <110> APPLICANT: Fikes, John D.  
 5 Sette, Alessandro  
 6 Sidney, John  
 7 Southwood, Scott  
 8 Celis, Esteban  
 9 Keogh, Elissa A.  
 10 Chesnut, Robert  
 11 Epimmune Inc.  
 13 <120> TITLE OF INVENTION: HLA Class I A2 Tumor Associated Antigen  
 14 Peptides and Vaccine Compositions  
 17 <130> FILE REFERENCE: 018623-015720US  
 19 <140> CURRENT APPLICATION NUMBER: US 09/583,200B  
 20 <141> CURRENT FILING DATE: 2000-05-30  
 22 <150> PRIOR APPLICATION NUMBER: US 09/016,361  
 23 <151> PRIOR FILING DATE: 1998-01-30  
 25 <150> PRIOR APPLICATION NUMBER: US 60/036,696  
 26 <151> PRIOR FILING DATE: 1997-01-31  
 28 <160> NUMBER OF SEQ ID NOS: 57  
 30 <170> SOFTWARE: FastSEQ for Windows Version 3.0  
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 33 <211> LENGTH: 10  
 34 <212> TYPE: PRT  
 35 <213> ORGANISM: Artificial Sequence  
 37 <220> FEATURE:  
 38 <223> OTHER INFORMATION: CEA.233V10  
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 42 1 5 10  
 44 <210> SEQ ID NO: 2  
 45 <211> LENGTH: 9  
 46 <212> TYPE: PRT  
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 49 <220> FEATURE:  
 50 <223> OTHER INFORMATION: CEA.605V9  
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 54 1 5  
 56 <210> SEQ ID NO: 3  
 57 <211> LENGTH: 9  
 58 <212> TYPE: PRT  
 59 <213> ORGANISM: Artificial Sequence  
 61 <220> FEATURE:  
 62 <223> OTHER INFORMATION: CEA.687

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/583,200B

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TIME: 11:38:56

Input Set : A:\-157-2.app  
Output Set: N:\CRF3\02042002\I583200B.raw

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73 <220> FEATURE:  
74 <223> OTHER INFORMATION: p53.25V11  
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77 Leu Leu Pro Glu Asn Asn Val Leu Ser Pro Val  
78 1 5 10  
80 <210> SEQ ID NO: 5  
81 <211> LENGTH: 9  
82 <212> TYPE: PRT  
83 <213> ORGANISM: Artificial Sequence  
85 <220> FEATURE:  
86 <223> OTHER INFORMATION: p53.139L2  
88 <400> SEQUENCE: 5  
89 Lys Leu Cys Pro Val Gln Leu Trp Val  
90 1 5  
92 <210> SEQ ID NO: 6  
93 <211> LENGTH: 9  
94 <212> TYPE: PRT  
95 <213> ORGANISM: Artificial Sequence  
97 <220> FEATURE:  
98 <223> OTHER INFORMATION: p53.139L2B3  
100 <400> SEQUENCE: 6  
101 Lys Leu Asx Pro Val Gln Leu Trp Val  
102 1 5  
104 <210> SEQ ID NO: 7  
105 <211> LENGTH: 9  
106 <212> TYPE: PRT  
107 <213> ORGANISM: Artificial Sequence  
109 <220> FEATURE:  
110 <223> OTHER INFORMATION: p53.149L2  
112 <400> SEQUENCE: 7  
113 Ser Leu Pro Pro Pro Gly Thr Arg Val  
114 1 5  
116 <210> SEQ ID NO: 8  
117 <211> LENGTH: 9  
118 <212> TYPE: PRT  
119 <213> ORGANISM: Artificial Sequence  
121 <220> FEATURE:  
122 <223> OTHER INFORMATION: p53.149M2  
124 <400> SEQUENCE: 8  
125 Ser Met Pro Pro Pro Gly Thr Arg Val  
126 1 5  
128 <210> SEQ ID NO: 9

## RAW SEQUENCE LISTING

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PATENT APPLICATION: US/09/583,200B

TIME: 11:38:56

Input Set : A:\-157-2.app

Output Set: N:\CRF3\02042002\I583200B.raw

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134 <223> OTHER INFORMATION: Her2/neu.369L2V9  
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137 Lys Leu Phe Gly Ser Leu Ala Phe Val  
138 1 5  
140 <210> SEQ ID NO: 10  
141 <211> LENGTH: 9  
142 <212> TYPE: PRT  
143 <213> ORGANISM: Artificial Sequence  
145 <220> FEATURE:  
146 <223> OTHER INFORMATION: Her2/neu.369V2V9  
148 <400> SEQUENCE: 10  
149 Lys Val Phe Gly Ser Leu Ala Phe Val  
150 1 5  
152 <210> SEQ ID NO: 11  
153 <211> LENGTH: 10  
154 <212> TYPE: PRT  
155 <213> ORGANISM: Artificial Sequence  
157 <220> FEATURE:  
158 <223> OTHER INFORMATION: Her2/neu.773  
160 <400> SEQUENCE: 11  
161 Val Met Ala Gly Val Gly Ser Pro Tyr Val  
162 1 5 10  
164 <210> SEQ ID NO: 12  
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166 <212> TYPE: PRT  
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169 <220> FEATURE:  
170 <223> OTHER INFORMATION: Her2/neu.5  
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174 1 5  
176 <210> SEQ ID NO: 13  
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178 <212> TYPE: PRT  
179 <213> ORGANISM: Artificial Sequence  
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182 <223> OTHER INFORMATION: MAGE3.271  
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185 Phe Leu Trp Gly Pro Arg Ala Leu Val  
186 1 5  
188 <210> SEQ ID NO: 14  
189 <211> LENGTH: 9  
190 <212> TYPE: PRT  
191 <213> ORGANISM: Artificial Sequence  
193 <220> FEATURE:

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/583,200B

DATE: 02/04/2002  
TIME: 11:38:56

Input Set : A:\-157-2.app  
Output Set: N:\CRF3\02042002\I583200B.raw

194 <223> OTHER INFORMATION: Her2/neu.48  
196 <400> SEQUENCE: 14  
197 His Leu Tyr Gln Gly Cys Gln Val Val  
198 1 5  
200 <210> SEQ ID NO: 15  
201 <211> LENGTH: 9  
202 <212> TYPE: PRT  
203 <213> ORGANISM: Artificial Sequence  
205 <220> FEATURE:  
206 <223> OTHER INFORMATION: Her2/neu.435  
208 <400> SEQUENCE: 15  
209 Ile Leu His Asn Gly Ala Tyr Ser Leu  
210 1 5  
212 <210> SEQ ID NO: 16  
213 <211> LENGTH: 9  
214 <212> TYPE: PRT  
215 <213> ORGANISM: Artificial Sequence  
217 <220> FEATURE:  
218 <223> OTHER INFORMATION: CEA.691  
220 <400> SEQUENCE: 16  
221 Ile Met Ile Gly Val Leu Val Gly Val  
222 1 5  
224 <210> SEQ ID NO: 17  
225 <211> LENGTH: 9  
226 <212> TYPE: PRT  
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229 <220> FEATURE:  
230 <223> OTHER INFORMATION: Her2/neu.369  
232 <400> SEQUENCE: 17  
233 Lys Ile Phe Gly Ser Leu Ala Phe Leu  
234 1 5  
236 <210> SEQ ID NO: 18  
237 <211> LENGTH: 9  
238 <212> TYPE: PRT  
239 <213> ORGANISM: Artificial Sequence  
241 <220> FEATURE:  
242 <223> OTHER INFORMATION: MAGE3.112  
244 <400> SEQUENCE: 18  
245 Lys Val Ala Glu Leu Val His Phe Leu  
246 1 5  
248 <210> SEQ ID NO: 19  
249 <211> LENGTH: 9  
250 <212> TYPE: PRT  
251 <213> ORGANISM: Artificial Sequence  
253 <220> FEATURE:  
254 <223> OTHER INFORMATION: CEA.24V9  
256 <400> SEQUENCE: 19  
257 Leu Leu Thr Phe Trp Asn Pro Pro Val  
258 1 5

## RAW SEQUENCE LISTING

DATE: 02/04/2002

PATENT APPLICATION: US/09/583,200B

TIME: 11:38:56

Input Set : A:\-157-2.app

Output Set: N:\CRF3\02042002\I583200B.raw

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260 <210> SEQ ID NO: 20
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262 <212> TYPE: PRT
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266 <223> OTHER INFORMATION: MAGE3.160
268 <400> SEQUENCE: 20
269  Leu Val Phe Gly Ile Glu Leu Met Glu Val
270    1             5             10
272 <210> SEQ ID NO: 21
273 <211> LENGTH: 11
274 <212> TYPE: PRT
275 <213> ORGANISM: Artificial Sequence
277 <220> FEATURE:
278 <223> OTHER INFORMATION: MAGE3.159
280 <400> SEQUENCE: 21
281  Gln Leu Val Phe Gly Ile Glu Leu Met Glu Val
282    1             5             10
284 <210> SEQ ID NO: 22
285 <211> LENGTH: 9
286 <212> TYPE: PRT
287 <213> ORGANISM: Artificial Sequence
289 <220> FEATURE:
290 <223> OTHER INFORMATION: Her2/neu.689
292 <400> SEQUENCE: 22
293  Arg Leu Leu Gln Glu Thr Glu Leu Val
294    1             5
296 <210> SEQ ID NO: 23
297 <211> LENGTH: 9
298 <212> TYPE: PRT
299 <213> ORGANISM: Artificial Sequence
301 <220> FEATURE:
302 <223> OTHER INFORMATION: Her2/neu.665
304 <400> SEQUENCE: 23
305  Val Val Leu Gly Val Val Phe Gly Ile
306    1             5
308 <210> SEQ ID NO: 24
309 <211> LENGTH: 10
310 <212> TYPE: PRT
311 <213> ORGANISM: Artificial Sequence
313 <220> FEATURE:
314 <223> OTHER INFORMATION: MAGE2.157
316 <400> SEQUENCE: 24
317  Tyr Leu Gln Leu Val Phe Gly Ile Glu Val
318    1             5             10
320 <210> SEQ ID NO: 25
321 <211> LENGTH: 10
322 <212> TYPE: PRT
323 <213> ORGANISM: Artificial Sequence

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→ Use of n and/or Xaa has been detected in the Sequence Listing.  
Review the Sequence Listing to insure a corresponding  
explanation is presented in the <220> to <223> fields of  
each sequence using n or Xaa.

## VERIFICATION SUMMARY

DATE: 02/04/2002

PATENT APPLICATION: US/09/583,200B

TIME: 11:38:57

Input Set : A:\-157-2.app

Output Set: N:\CRF3\02042002\I583200B.raw

L:388 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29  
L:404 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30  
L:456 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34  
L:496 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37  
L:536 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40